CLAIMS

What is claimed is:

- 1. A composition comprising an amide related to
- 5 a. a prostaglandin; and
 - b. an amine selected from the group consisting of epinephrine, dopamine, diacetyl dopamine and serotonin.
 - 2. The composition of claim 1 wherein the prostaglandin is a natural prostaglandin selected from the group consisting of prostaglandin E,
- prostaglandin E_2 , prostaglandin F, prostaglandin $F_{2\alpha}$, and prostaglandin D_2 , or is an analog thereof.
 - 3. The composition of claim 1 wherein the prostaglandin is prostaglandin $F_{2\alpha}$ or an analog thereof.
 - 4. The composition of claim 1 wherein the prostaglandin is prostaglandin
- 15 E_2 or an analog thereof.
 - 5. The composition of claim 1 wherein the prostaglandin comprises from 0 to 2 double covalent bonds connecting two carbon atoms.
 - 6. The composition of claim 1 wherein the prostaglandin comprises two double covalent bonds connecting two carbon atoms.
- 7. The composition of claim 1 wherein the prostaglandin comprises from 1 to 3 heteroatoms, wherein said heteroatoms comprise S or O, said heteroatoms replacing carbon atoms which are present in prostaglandin E₂, prostaglandin F₂, or prostaglandin D₂.
- 8. The composition of claim 1 wherein the prostaglandin comprises a moiety which replaces from 2 to 5 carbon atoms on the terminal end of a ω chain of a natural prostaglandin, said moiety comprising phenyl, naphthyl, benzothienyl, furanyl, or thienyl.
 - 9. The composition of claim 1 wherein the prostaglandin is prostaglandin $F_{2\alpha}$ and the amine is dopamine.
- 30 10. The composition of claim 1 wherein the prostaglandin is prostaglandin $F_{2\alpha}$ and the amine is diacetyl dopamine.

- 11. The composition of claim 1 wherein the prostaglandin is prostaglandin $F_{2\alpha}$ and the amine is serotonin.
- 12. A compound comprising

5 or a salt, ester, or prodrug thereof,

wherein

said compound is not naturally occurring;

the hatched wedge indicates an α configuration and the solid wedge indicates a β configuration;

the dashed line indicates the presence or absence of a double bond;

A and B are both CHOH, or A is CHOH and B is C=O, or B is CHOH and A is C=O;

R¹ is phenyl, indolyl, or monohydroxy or dihydroxy derivatives of phenyl or indolyl;

15 R^2 is OH or H;

R³ is *n*-butyl, *n*-pentyl, or *n*-hexyl; cyclohexyl, Ar, or W-Ar; wherein Ar is phenyl, naphthyl, thienyl, furanyl, or benzothienyl, or a substituted derivative of phenyl, naphthyl, thienyl, furanyl, or benzothienyl, wherein from 1 to 3 hydrogen atoms are substituted with halogen, methyl, or

20 trifluoromethyl; and

W is N, S, O, or CH2; and

 R^4 is hydrogen, methyl, ethyl, iso-propyl, or n-propyl.

13. The compound of claim 12 wherein R^3 is *n*-butyl, Ar, or W-Ar, wherein Ar is phenyl, naphthyl, or benzothienyl.

- 14. The compound of claim 12 wherein R^3 is *n*-butyl, Ar, or W-Ar, wherein Ar is phenyl.
- 15. The compound of claim 12 wherein R^3 is *n*-butyl or W-Ar, wherein W is O or CH_2 , and Ar is phenyl.
- 5 16. The compound of claim 12 wherein R¹ is 3,4-dihydroxyphenyl and R² is OH.
 - 17. The compound of claim 12 wherein R^1 is 3,4-dihydroxyphenyl, R^2 is OH, and R^4 is methyl.
- 18. The compound of claim 12 wherein R¹ is 3,4-dihydroxyphenyl, R² is H, and R⁴ is hydrogen.
 - 19. The compound of claim 12 wherein R^1 is 5-hydroxyindolyl, R^2 is H, and R^4 is hydrogen.
 - 20. The compound of claim 12 comprising

15 21. The compound of claim 12 comprising

22. The compound of claim 12 comprising

23. The compound of claim 12 comprising

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- 5 24. An ophthalmic composition comprising a therapeutically active agent or a prodrug thereof,
 - said therapeutically active agent comprising an amide functional group, wherein
 - selective hydrolysis of said amide functional group of the therapeutically active agent produces:
 - a compound having agonist activity at a prostaglandin receptor and a compound selected from the group consisting of serotonin and analogs thereof, dopamine and analogs thereof, and epinephrine and analogs thereof.
- 25. The composition of claim 24 wherein said prostaglandin receptor is
 selected from the group consisting of an FP receptor, an EP₁ receptor, an EP₂ receptor, an EP₄ receptor, a DP receptor, and combinations thereof.
 - 26. The composition of claim 24 wherein said compound having agonist activity at a prostaglandin receptor is prostaglandin E, prostaglandin E_2 , prostaglandin F, prostaglandin $F_{2\alpha}$, or prostaglandin D_2 .
- 20 27. The composition of claim 24 wherein said compound having agonist activity at a prostaglandin receptor is prostaglandin $F_{2\alpha}$.

- 28. The composition of claim 24 wherein selective hydrolysis of said amide functional group produces epinephrine, dopamine, or serotonin.
- 29. The composition of claim 24 wherein the therapeutically active agent or said prodrug thereof is selected from the group consisting of
- 5 (Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-((E)-(S)-3-hydroxy-oct-1-enyl)-cyclopentyl]-hept-5-enoic acid [2-(5-hydroxy-1*H*-indol-3-yl)-ethyl]-amide;

 Acetic acid 2-acetoxy-5-(2-{(Z)-7-[(1R,2R,3R,5S)-3,5-dihydroxy-2-((E)-(S)-3-hydroxy-oct-1-enyl)-cyclopenyl]-hept-5-enoylamino}-ethyl)-phenyl ester; and (Z)-7-[(1R,2R,3R,5S)-3,5-Dihydroxy-2-((E)-(S)-3-hydroxy-oct-1-enyl)-
- cyclopentyl]-hept-5-enoic acid [2-(3,4-dihydroxy-phenyl)-ethyl]-amide.

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- 30. A method of treating glaucoma comprising administering to a mammal suffering from glaucoma an effective amount of a therapeutically active agent or a pharmaceutically acceptable salt or a prodrug thereof, said therapeutically active agent consisting of a prostaglandin and a 2-aryl-1-ethylamine coupled by an amide bond.
- 31. The method of claim 30 wherein the 2-aryl-1-ethylamine comprises from 1 to 3 hydroxy or acetyloxy moieties.
- 32. The method of claim 30 wherein said prostaglandin is an FP-related prostaglandin.
- 20 33. The method of claim 30 wherein said prostaglandin is an EP₂-related prostaglandin.
 - 34. The method of claim 30 wherein said prostaglandin is an EP₄-related prostaglandin.
 - 35. The method of claim 30 wherein said prostaglandin is a DP-related prostaglandin.
 - 36. The method of claim 30 wherein said prostaglandin is prostaglandin prostaglandin $F_{2\alpha}$.
 - 37. The method of claim 36 wherein said amine is epinephrine, dopamine, or serotonin.
- 30 38. The composition of claim 1 wherein the prostaglandin is prostaglandin $F_{2\alpha}$ and the amine is epinephrine.
 - 39. The method of claim 30 wherein said prostaglandin is EP₁-related.